



MATERIAL SAFETY DATA SHEET
Fiberon® GUARDRAIL SYSTEMS - WASHINGTON
MSDS - Gray, Cedar, Brown and Redwood

1.) PRODUCT AND COMPANY IDENTIFICATION

Approval Date: 08/02/10

PRODUCT NAME: Fiberon® Series Guard Rail - Washington

SUPPLIER: Fiber Composites, LLC
181 Random Drive
New London, NC 28127

24 HOUR EMERGENCY: 704 -948-0240

PRODUCT AND MSDS INFORMATION: 704 -463-7120

2.) COMPOSITION / INFORMATION ON INGREDIENTS

CHEMICAL NAMES AND SYNONYMS:

- 1.) WOOD FIBER, WOOD DUST OR WOOD FLOUR
- 2.) POLYETHYLENE

INGREDIENTS CONSIDERED HAZARDOUS TO HEALTH:

<u>SUBSTANCE NAME</u>	<u>WEIGHT PERCENTAGE</u>
WOOD FIBER DUST	45-60 %

NOTE: WOOD FIBER IS CONTAINED IN A POLYETHYLENE MATRIX. POLYETHYLENE IS A THERMOPLASTIC MATERIAL. THIS MATRIX CONTAINS PREDOMINANTLY WOOD FIBER AND POLYETHYLENE. THE POLYETHYLENE CAN BE SOURCED AS VIRGIN OR REGRIND (RECYCLED) MATERIALS. THE STANDARD PRODUCT IS APPROXIMATELY 50% THERMOPLASTIC AND 50% WOOD FIBER.

See Section 8 for exposure limits (if applicable).

3.) HAZARDS IDENTIFICATION

UNITED STATES OF AMERICA OSHA HAZARD COMMUNICATION STANDARD: This product may be used in applications that produce wood dust fibers. According to OSHA CFR 1910.1200, certain wood fibers are considered hazardous if the workplace airborne concentration exceeds the OSHA or ACGIH exposure limits (See section 8).

EMERGENCY RESPONSE DATA: Light gray, cedar or redwood solid. Exposure to fire can generate toxic fumes. High dust levels may create potential for explosion. DOT ERG No. – NA

4.) FIRST AID MEASURES

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EYE CONTACT: Flush thoroughly with water. If irritation occurs, call a physician.

SKIN CONTACT: Wash contact areas with soap and water. Launder contaminated clothing before reuse.

INHALATION: If respiratory irritation, cough shortness of breath, wheezing or chest tightness occurs after exposure to dust, remove from further exposure, seek immediate medical assistance and call for a physician.

INGESTION: Not expected to be a problem when ingested in small quantities. If uncomfortable, seek medical assistance.

5.) FIRE-FIGHTING MEASURES

EXTINGUISHING MEDIA: Water

SPECIAL FIRE FIGHTING PROCEDURES: Use water to keep fire-exposed product cool. For fires in enclosed area, fire fighters must use self-contained breathing apparatus.

SPECIAL PROTECTIVE EQUIPMENT: For fires in enclosed areas, fire fighters must use self-contained breathing apparatus.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Exposure to fire can generate toxic fumes. High dust levels may create potential for explosion.

Flash Point:

Flame Spread Index:

Flammable Limits – LEL: NA

Flammable Limits – UEL: NA

NFPA HAZARD ID: Health: 0 Flammability: 1 Reactivity: 0.

HAZARDOUS DECOMPOSITION PRODUCTS: Smoke, Carbon Monoxide, Acetaldehyde, Formaldehyde, Formic Acid and Acetic Acid.

6.) ACCIDENTAL RELEASE MEASURES

NOTIFICATION PROCEDURE: None

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Fiberon® GUARDRAIL SYSTEMS - WASHINGTON
MSDS - Gray, Cedar, Brown and Redwood

PROCEDURES IF MATERIAL IS RELEASED OR SPILLED: Where dusty conditions are created as a result of cutting or sawing, wet down material then sweep or vacuum for disposal. Personnel performing cleanup must use protective equipment.

ENVIRONMENTAL PRECAUTIONS: Not expected to be a problem.

PERSONAL PRECAUTIONS: See Section 8.

7.) HANDLING AND STORAGE

HANDLING: Fiberon® Guardrail Systems are not intended for load-bearing or heavy structural applications. Please consult Fiber Composites' literature for proper usage. The density of Fiberon® Guardrail material is heavier as compared to most traditional lumber products. Therefore, the user must employ proper handling to prevent damage or injury.

STORAGE: Store Fiberon® Guardrail Systems away from strong oxidizing agents or combustible material.

8.) EXPOSURE CONTROLS / PERSONAL PROTECTION

VENTILATION: Use and work in a well-ventilated area.

RESPIRATORY PROTECTION: Approved dust respirators must be used for dusty conditions or if breathing of dusts is probable.

EYE PROTECTION: Safety glasses with side shields or goggles should be worn to protect against dust particles in the air.

SKIN PROTECTION: No special equipment required. Good personal hygiene should be followed.

<u>SUBSTANCE NAME</u>	<u>SOURCE</u> (Agency)	<u>TWA</u> (ppm mg / m ³)	<u>STEL</u> (ppm mg / m ³)
Wood Fiber Dust			
Hardwood	OSHA	5	
Softwood	OSHA	5	
Oak Hardwood	ACGIH	1	
Softwood	ACGIH		10

NOTE: Limits as displayed are for guidance only. Follow application regulations.

9.) PHYSICAL AND CHEMICAL PROPERTIES

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Physical properties are given which are considered representative. For specific physical properties refer to the Product Data Sheet.

APPEARANCE:	Solid
COLOR:	Cedar which fades to a light peach after several weeks. Gray which fades to a light gray after several weeks. Redwood which fades to a light red after several weeks. Brown which fades to a light brown after several weeks
ODOR:	None
PH VALUE:	NA
BOILING POINT:	NA
MELTING POINT:	Approximately 130 C
FLASH POINT:	398 C
FLAMMABILITY:	SwRI – Flame Spread Index = 115
SELF-IGNITION:	437 C
SMOKE DEVELOPED VALUE:	135
WATER ABSORPTION:	.5% by weight
COEF. OF MOISTURE EXPANSION:	.5% by thickness
WATER SOLUBILITY:	Negligible
FUNGUS RESISTANCE:	No Decay
TERMITE RESISTANCE:	Light Attack Rating = 9.6 (10 Max)
COEF OF THERMAL EXPANSION:	2.8×10^{-5} (1/C)
VAPOR DENSITY:	NE
EVAPORATION RATE:	NE
POUR POINT:	NA
FREEZING POINT:	NE
VOLATILE ORGANIC COMPOUND:	NE

NOTE: NA – Not Applicable NE – Not Established
For additional information, contact customer service.

10.) STABILITY AND REACTIVITY

STABILITY (THERMAL, LIGHT, WEATHER, ETC.):	Stable (color does fade).
CONDITIONS TO AVOID:	Heat and flame. Build up of dusts.
INCOMPATIBILITY:	Strong oxidizers.
HAZARDOUS DECOMPOSITION PRODUCTS:	Smoke, carbon monoxide, acetaldehyde, formaldehyde, formic acid & acetic acid.
HAZARDOUS POLYMERIZATION:	Will not occur.

11.) TOXICOLOGICAL DATA

MATERIAL SAFETY DATA SHEET
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ACUTE TOXICOLOGY

ORAL TOXICITY (RATS):	NE
DERMAL TOXICITY (RABBITS):	NE
INHALATION TOXICITY (RATS):	NE
EYE IRRITATION (RABBITS):	NE
SKIN IRRITATION (RABBITS):	NE

NOTE: NE – Not Established

CHRONIC TOXICOLOGY

IARC has determined and summarized that there is sufficient evidence to classify wood fiber as a human carcinogen. Exposure to wood fiber is severely reduced when wood fiber is encased by a polymer matrix.

12.) ECOLOGICAL INFORMATION

ENVIRONMENTAL FATE AND EFFECTS: Not Established

13.) DISPOSAL CONSIDERATIONS

WASTE DISPOSAL: Dispose of waste as normal refuse.

14.) TRANSPORT INFORMATION

USA DOT: Not regulated by US DOT.
IMO: Not regulated by IMO.
IATA: Not regulated by IATA

15.) REGULATORY INFORMATION

GOVERNMENT INVENTORY STATUS: All components comply with TSCA.

U.S. SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT (SARA) TITLE III:
Fiber Composites' Fiberon[®] Guardrail Systems contains no chemicals reportable under SARA (313) toxic release program.

USE: Composite Lumber Products for Decking

INGREDIENTS:



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Wood fiber	40-60 % by weight
Polyethylene	60-40 % by weight

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